from Regional Tensions

#1 Virtual Universal JIT Aircraft Factory -- highly integrated, many variations on basic design, easy changes, build as needed, open architecture, different sizes and capabilities, universal flying qualities

	Why This Score?	Rewrite for a Better Fit?
Pushing the Envelope	Universal not needed, extensive competition with easy entry, the cost penalty for the maximum flexibility is too high, but general approach is applicable	
Grounded	Pulling mfg. back to the US is desirable so is multi-location but universal is too expensive	
Trading Places	Similar requirements but global rather than US in scope; needs to be cost competitive; low military need	
Environmentally Challenged	Integrated model works but needs to be done cheaper; flexibility and JIT less important since long range demand planning exists and few types are needed	

#2 Skill-Targeted Education System	- core education,	followed by	targeted tra	aining, industry	is campus	for targeted education	Defense	Education	Act of
2020			_		_	-			

	Why This Score?	Rewrite for a Better Fit?
Pushing the Envelope	No government intervention,; voluntary program is need driven and focus is global not US only.	
Grounded	World has an excess number of skilled engineers and workers plus low government involvement	
Trading Places	Little support from government and skills are easily purchased abroad	
Environmentally Challenged	This would help some and might meet some needs and there might be government support but it is an anti-technology world	

#3 Short-to-Medium Haul, Infrastructure-Independent Stealthy Transport Aircraft – for military it is special forces & multi-role, For civil transport
South American, short haul dense markets, and support for dispersed manufacturing locations

	 Why This Score?	Rewrite for a Better Fit?
Pushing the Envelope	Too expensive for world; infrastructure is being built in China and SA; needs to be made cheaper	
Grounded	This works great with the military [4] but not at all with the civil market [0] though there is a need for heavy payloads	
Trading Places	Basic overlap on civilian side; no roads in China, no stealth nor military need, but reduction of observables is good	
Environmentally Challenged	Infrastructure is not a problem but the stealthy aspects are attractive	

from Regional Tensions

#4 Extremely Long Range, Large, High Speed Transport Aircraft – for military in force projection and precision air drop, for civilian for high value industrial product distribution and passenger transport to make better use of scarce transport infrastructure

	Why This Score?	Rewrite for a Better Fit?
Pushing the Envelope	In this world Civil has the lead and military takes rather than other way around	
Grounded	A small SST is attractive and similar technology is needed but scaled down, but LARGE is bad	
Trading Places	Large transport is needed but sub sonic the world does not have the infrastructure constraints	
Environmentally Challenged	Energy and emissions make this prohibitive	

#5 UAVs for Surveillance, Cargo, Combat, and Communications	

	Why This Score?	Rewrite for a Better Fit?
Pushing the Envelope	Combat is not important but civil to military flexibility makes the UAV attractive	
Grounded	Little application in this world	
Trading Places	No military missions ad most of other missions are done from space.	
Environmentally Challenged	Low weight, low cost, low energy observation make this a hit	

6 Stealth and Quite – in militar	y for anti-stealth	in civil for comm	ercial stealth for	defense of civi	l aircraft & re	duced observability	near airp	orts

	Why This Score?	Rewrite for a Better Fit?
Pushing the Envelope	The "quiet" and "low pollution" attributes are attractive	
Grounded	Observables such as noise reduction are good and other features compatible with need for a survival aircraft	
Trading Places	No military need but environmental elements are needed	
Environmentally Challenged	Defense against terrorists and environmental benefits work very well	

from Regional Tensions

#7 Quick, Cheap, Non-Human Access to Space – for military to place assets in space faster than enemy can destroy (surveillance, missile defense, communications, navigation, weather), for civil for communications, navigation, surveillance, weather, mercenary use. In aero ops for air breathing first stage, aircraft like operations

	Why This Score?	Rewrite for a Better Fit?
Pushing the Envelope	Low cost "on demand" is perfect military pay or civilian pay load makes no difference	Change language to "on demand"
Grounded	Quick response rapid launch of small satellites is ideal	
Trading Places	Access is important but no military need and on demand is not important communications needs reliability	
Environmentally Challenged	No real need for air breathing access but if competitive it is OK	

#8 Unstaffed or Autonomous ATC – s	system self-contained in aircraft	

	Why This Score?	Rewrite for a Better Fit?
Pushing the Envelope	Massive air traffic demand , have infrastructure no need for autonomous	
Grounded	Need very similar technology	
Trading Places	Serving airports with limited support; a more integrated world	
Environmentally Challenged	Interest in low energy cost aspects	